

The "Crescent" "Go-Around" Proportional Servo

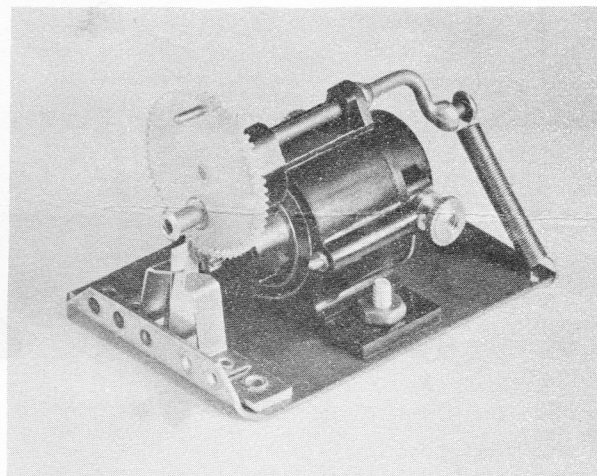
**THIS ONE SERVO GIVES YOU SELECTIVE PROPORTIONAL
RIGHT & LEFT RUDDER + SELECTIVE POSITIONABLE MOTOR
CONTROL + COMPLETELY FAIL SAFE OPERATION.**

FULL PRICE

\$8⁹⁵

GLASS CITY MODEL ELECTRONICS BOX 2864 STA B Toledo, Ohio

Please Include Check or Money Order With Your Order



HOW IT WORKS

Mount your GO-AROUND SERVO on a bulkhead in your model with the base of the servo toward the front and the motor shaft in a vertical position with the gear end on top. The servo may be contact cemented or bolted in place. The servo may also be mounted on the side of the model. The only change you must make will be changing the location of the little striker pin. The pin is simply pulled out and pressed into the auxiliary hole provided in the gear. Normally, no adjustment will be necessary for the centering spring. If you feel adjustment is necessary, you can tighten the spring by removing loops. If it is too tight, stretch it slightly. Wire your servo per wiring diagram shown. Observe servo motor polarities so that when the GO-AROUND SERVO is stalled against one contact the motor control servo is operating on the opposite set of batteries. Start your pulser. It may be operated anywhere between 4 & 12 pps. with equal results. Your radio equipment will determine its most desirable speed. Adjust the pulse width ratio on your CRESCENT MARK II UNIVERSAL PULSER or PULSMITTER so that you get control reactions per sketches 2, 3 & 4, and you are ready to go. This servo **FAILS SAFE**. When no signal is present, it will return the rudder to neutral and retard the throttle. Selective trimmable (any position) motor control may be had with the GO-AROUND SERVO when used with the CRESCENT MOTOR CONTROL SERVO. Note: Light weight, very freely operating push rods and control surfaces must be used with the GO-AROUND SERVO.

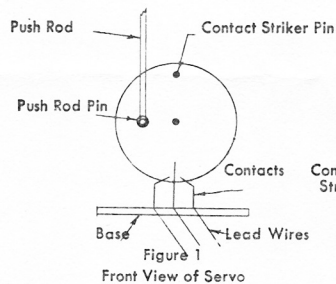


Figure 1
Front View of Servo

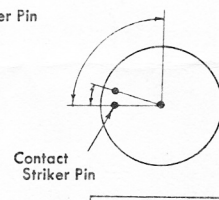


Figure 2
Full Right Rudder
Pulser Pattern

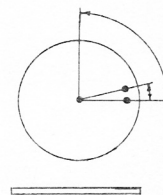


Figure 3
Full Left Rudder
Pulse Pattern

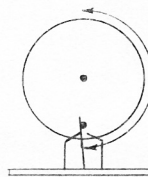
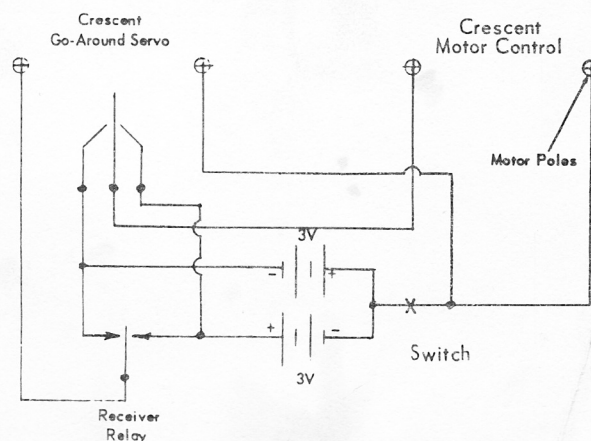


Figure 4
No Signal Position
Retard Engine Control
Full Signal Opposite



GLASS CITY MODEL ELECTRONICS

MANUFACTURERS OF
QUALITY RADIO CONTROL

BOX 2864 STA. B
TOLEDO, OHIO

MAINTENANCE NOTES CONT'D.

and reassembled with very little trouble. Watch your switches closely, they can cause you much trouble.

Batteries have always been a problem. With the development of the newer low voltage all transistor receiver, much battery trouble has been eliminated. The introduction of nickle cadmium batteries and power converters have also helped the battery problem. If you use ni-cads, it is always best to solder them directly in to the circuit and forget about battery boxes. If you must use battery boxes, they should be periodically cleaned and checked for corrosion on the contacts and for proper contact pressure. Zinc carbon batteries should always be checked under load before using them even if they are brand new. In some cases, zinc carbon cells will show proper voltage with no load but will not be capable of maintaining it when a load is applied.

Proper receiver tuning is often overlooked as a source of trouble but is more often than not the cause of poor range and improper operation. You should always follow the manufacturers recommendations as closely as possible. If you are new at the game, try to get help from a more experienced R. C. modeler. It is always good practice to check receiver tuning before each flying session. It may take a little time, but it may save you a crack up. Loose components in a receiver and especially a loose tuning slug that will vibrate out of position can also cause very serious trouble.

Glass City Model Electronics Pulse Proportional R. C. gear is built around basic mechanical principles. A mechanical function in this application is generally superior to it's electronic counterpart in that it is not subject to temperature, humidity and voltage variations. Once it is adjusted, it will retain it's setting for an indefinite period of time. As with any mechanical function, although, it will require a limited amount of maintenance.

Proper lubrication is the most important single item to consider in the successful use of a mechanical unit. Adequate lubrication is a must but over lubrication can be just as serious a problem as no lubrication at all.

A great deal of time has been spent by Glass City Model Electronics on testing and developing the correct materials for the different applications in the Crescent mechanical R. C. system. For instance, the material used for the wiper in the Crescent Universal Pulser and Pulsmitter is a special type stainless steel selected to give uniform action with a very low rate of wear. If the recommended graphite lubricant is used in a conscientious manner, the wiper will wear for several seasons before it is necessary to replace it. It then can be replaced at a cost of 50 cents.